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(19) **United States**(12) **Patent Application Publication**  
**Wallius et al.**(10) **Pub. No.: US 2014/0368730 A1**(43) **Pub. Date: Dec. 18, 2014**(54) **FLASHLAMP APPARATUS AND METHOD****Publication Classification**(71) Applicant: **Nokia Corporation**, Espoo (FI)(51) **Int. Cl.****G03B 15/06** (2006.01)**H04N 5/225** (2006.01)(72) Inventors: **Samuli U. Wallius**, Turku (FI); **Mikko Antton Juhola**, Muurla (FI); **Lassi Kristian Yla-Soininmaki**, Hameenlinna (FI); **Tomi Juhani Lintulahti**, Kangasala (FI)(52) **U.S. Cl.**CPC ..... **G03B 15/06** (2013.01); **H04N 5/2252** (2013.01)USPC ..... **348/373**; 362/17; 362/16; 29/428(73) Assignee: **Nokia Corporation**, Espoo (FI)(21) Appl. No.: **13/920,293**(22) Filed: **Jun. 18, 2013**(57) **ABSTRACT**

An apparatus including a flashlamp; a lens member connected to the flashlamp; and a reflector connected to the lens member. The lens member is located between the flashlamp and the reflector. A method includes connecting the lens member to the flashlamp, where the lens member substantially surrounds the flashlamp, and connecting the reflector around an exterior side of the lens member, where an exit side of the lens member is not covered by the reflector.

